37806 S/120/62/000/002/037/047 E140/E163 24.7700 Kynev, St., Sheynkman, M.K., Shul'ga, AUTHORS: and Fursenko, V.D. Contactless method of measuring the parameters of certain semiconductors TITLE: PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 154-159 Essentially, the method consists in placing the sample of semiconductor between two capacitor plates in a Hartley oscillator circuit and measuring the change of grid current. This can be calibrated in terms of the bulk conductivity of the sample. The oscillator operates at about 10-15 Mcs. The electrodes are shaped so that the sample can be illuminated, for determining its photoelectric properties. Some applications are: acceptance testing of samples for their photoelectric properties, under conditions eliminating the distorting effects of electrodes in contact with the sample; study of just these distorting effects; study of samples in an enclosed volume without requiring their exposure to the atmosphere; study of the kinetics of infra-red extinction of a Card 1/2

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TOPIC TAGS: semiconductor, and the semiconductor of semiconductor films is ducting film/ 6NZP lamp, ENO 1 oscillograph ABSTRACT: A device for rapid measurement of parameters of semiconductor films is described. The apparatus removes the need for direct contact of electrodes upon described. The apparatus removes the need for direct contact of electrodes upon test specimens and permits the study of parameter distribution along the film, as test specimens and permits the study of parameter distribution along the film, as test specimens and permits the study of parameter distribution along the film, as test specimens and permits the study of parameter distribution along the film, as test specimens and permits the study of parameters of semiconductor films is	7.5
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ment is based upon the device is given. Special elements in its network include a 6NZP lamp Eksperimental naya i teoreticheskaya fizika, T. 6., Vyp. 1, 1936). A circular Eksperimental naya i teoreticheskaya fizika, T. 6., Vyp. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp Zavoyskiy (Metod izmereniya potentsialov vozbuznately p. 1, 1936). A circular lamp zavoyskiy (Metod izmereniya p. 1, 1936). A circula	
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MAZURMOVICH, Boris Nikolayevich; SHUL'GA, Ivan Kondrat'yevich; PETROVSKAYA, Ye.P., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Eminent Russian zoologists; a manual for teachers in secondary schools] Vydaiushchiesia otechestvennye zoologi; posobie dlia uchitelei srednei shkoly. Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 1955. 294 p. (MIRA 9:8) (Zoologists)

TROTSENKO, M.A.; SHUL'GA, I.N.

Determination of DDT analogues (perthane and methoxychlor) in food products. Vop.pit 21 no.4:52-55 J1-Ag '62. (MIRA 15:12)

1. Iz Ukrainskogo instituta pitaniya, Kiyev.
(FOOD CONTAMINATION) (DDT (INSECTICIDE))

NARINSKIY, F.I., kand.tekhn.nauk; SHUL'GA, I.V., red.; ZAGRANICHNYY, B.V., tekhn.red.

。 1. 美国民民主义是国际政策的国际政策的政策的关系,其实的工程的对象,对于自己的工程的一个工程,但是自己的工程的对象,可以是国际政策的对象,但是国际政策的政策的

[Equipment for prestressing reinforced concrete; a survey]
Oborudovanie dlia napriazhennogo armirovaniia zhelezobetomnykh
konstruktsii; informatsionnyi obzor. Leningrad, Biuro tekhn.
informatsii, 1957. 41 p.
(Prestressed concrete)

SHUL'GA, I.V. (Moskva)

Problem of treating blepharitis with biomycin; author's abstract.

Vest.oft. 72 no.5:50-51 S-0 '99. (MIRA 13:3)

(EYELIDS, dis.)

(CHLORISTRACYCLINE, ther.)

ZVEREV, A.F., inzh.; KARTALAPOV, F.F., inzh.; MAZUR, Z.M., inzh.; OVSYANNIKOV, M.I., inzh.; SHUL'GA, I.Ya., inzh.

Concerning the use of a glass fiber tape in the manufacture of cables. Vest.elektroprom. 33 no.6:61-62 Je *62. (MIRA 15:7) (Electric cables)

SHUL'GA, I.Ya., inzh.; MAKARENKO, R.V., inzh.

Use of "leikonat" glue for sealing polyvinyl chloride to rubber.

Vest. elektroprom. 34 no.5:64-65 My '63. (MIRA 16:5)

(Polymers) (Rubber) (Adhesives)

[Manual on feed antibiotics] Spravochnik po kormovym antibiotikam. Minsk, Izd-vo "Urozhai," 1964. 349 p. (MIRA 17:8)

SKOROPANOV, S.G., glavnyy red.; EREZHNEV, D.D., red.; LUPINOVICH, I.S., akademik, red.; SINYAGIN, I.I., red.; SOKOLOV, N.S., red.; KHOT'KO, A.I., kand.sel'skokhoz.nauk, red.; SHUL'GA, K.V., red.; SVIRIDOV, V.I., tekhn.red.

是心理的祖母是我们是我们的人的是不是有一个。

[Reclaiming bog and awampy soils of the non-Chernozem zone of the Buropean U.S.S.R.; materials of the joint scientific session, July 8-11, 1958] Osvoenie bolotnykh i zebolochennykh pochv nechernozemnoi zony Evropeiskoi chasti SSSR; materialy ob edinennoi nauchnoi sessii 8-11 iiulia 1958 g. Minsk, Izd-vo Akad.sel khoz.nauk ESSR, 1960. 258 p. (MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.
Lenina. 2. Chlen-korrespondent AN BSSR (for Skoropanov).

3. Akademiya nauk BSSR i Akademiya sel'skokhozyaystvennykh nauk
BSSR (for Lupinovich).

(Reclamation of land) (Peat bogs)

SHULIGA, K.V.; SERZHANINA, G.I., kand. biol. nauk, spets. red.

[Mushrooms of our forests] Griby nashikh lesov. Minsk,
Uradzhai, 1965. 195 p.

(MIRA 18:10)

GOREGLYAD, Khariton Stepanovich, akademik; SHUL'GA, K.V., red.; YERMILOV, V.M., tekhn. red.

[Hygienic inspection of animal and plant products] Veterinarno-sanitarnye issledovaniia produktov zhivotnovodstva i rastenievodstva. Minsk, Gos.izd-vo sel'khoz.lit-ry BSSR, 1962. 255 p. (MIRA 15:6)

1. Akademiya nauk Belorusskoy SSR (for Goreglyad). (Food adulteration and inspection)

DITMAR, Andrey Borisovich; GOLUBTSOVA, Ye.S., kand. ist. nauk, nauchnyy red.; SOLOV'YEV, A I., akademik; red.; PROKHODTSEVA, S.Ya., red.; SHUL'GA, L.K., mladshiy red.; KOSHELEVA, S.M., tekhn. red.

[From Scythia to Elephantine; Herodotus' life and travels] Ot skifii do Elefantiny; zhizn' i puteshestviia Gerodota. Moskva, Geografgiz, 1961. 85 p. (MIRA 15:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk (för Solov'yev).

(Herodotus, c.484 - 425 B.C.)

SSD/AFETR/AFMD(p)/ESD(dp)/AFTC(b)/ASD(d)/AFWL/ASD(a)-5/BSD CG/BB 5/0302/64/000/003/0022/0023 ACCESSION NR: AP4046108 AUTHOR: Burachenko. A. M.; Boltushkin, A. B.; Konchits, P. A.; ß Savchenko, N. Ye.; Shul'ga, L. M. TITLE: Introducing telegraph-tape information into a "Ural-1" computer SOURCE: Avtomatika i priborostroyeniye, no. 3, 1964, 22-23 TOPIC TAGS: digital computer, data introduction / Ural-1 computer ABSTRACT: The blueprint of an input storage device is described intended for receiving data from an ST-35 telegraph apparatus at a speed of 400 characters per min, storing data on a 17.5-mm-wide 5-channel telegraph tape, and feeding the data, at a speed of 4,500 ± 10% numbers per min, into an "Ural-1" digital computer. The use of the tape-transport mechanism of a "Minsk"-type computer is envisaged. A block diagram is supplied, and the general features of the functioning of the planned device are discussed. Orig. art. has: | ligure. Card 1/2

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ACC NR. AT7001717 SOURCE CODE: UR/2625/66/000/020/0137/0142

AUTHOR: Mitrofanov, M. G.; Martynenko, A. G.; Shul'ga, L. P.

ORG: none

TITLE: Obtaining MS-20 aviation oil from some crudes of the Checheno-Ingush ASSR and of the Stavropol' area

SOURCE: Groznyy, Neftyanoy nauchno-issledovatel'skiy institut. Trudy, no. 20, 1966. Tekhnologiya pererabotki nefti i gaza. Neftekhimiya (Technology of petroleum and gas processing. Petroleum chemistry), 137-142

TOPIC TAGS: crude petroleum, mazut, petroleum residue, lubricating oil, aviation oil /15-20 oriation oil

ABSTRACT: The results are given of a study of the possibilities of using mazuts from Upper-Cretaceous crudes of the Malgobek and Khayan-Kort fields and from the Ozek-Suat crude of the Stavropol' area as the raw materials for obtaining MS-20 aviation oil. Concentrates of the above mazuts were studied which remain after the separation of a part of the oil fractions from the mazut. Concentrates were fractionated chromatographically and suitable fractions were blended after dewaxing. It was found that the yield of MS-20 oil from Khayan-Kort concentrate

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ALEKSANDROV, B., polkovnik; SHUL:GA, M., mayor

Tactical aerial reconnaissance. Av.i kosm. 44 no.2:92-94 '62.
(MTRA 15:3)

(Aeronautics, Military-Observations)

, USSE / Cyrology.

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: Nor Zhur - Biol., No 19, 1952, No 85514 Abs Jour

Author

: Shul'ga, N. I. : Stalinsk and. Inst. Inst

: Emitotic Division of Vegetative Merve Cells. Titlo

: Tr. Stalinskogo mad. in-ta, 1957, 10, 38-41 Orig Pub

: Investigation by the Bilshovsky-Gross method of Abstract

changes in nerve cells in experimental pneumoconiosis in rats caused by inhalation of sandshale dust, showed that among the cells of lung nerve ganglia in a state of necrobiosis and necrosis, cells are found with a narrow, light aperture in a state of amitotic division (A). Daughter nuclei remain marrow, semilunar, and are unsuccessful in changing their arrangement because of the rapid rate of A. At times, A

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GALMINA, M. S., FOZEOVSKIY, V. J., TOYEVSKIY, T. L., ROVEWSKAYA, T. T.,

"Pneumocomicsis in workers engaged underground work in coal mines, and means of its prophylaxis."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

SHUL'GA, M.I.

्र कर्मकार के **व्यक्तिसंस्थित के अस्तर का अस्तर का अस्तर का**

Accumulation of dust cells and their removal from dust invaded lungs. Gig. truda i prof. zab. 4 no.6:52-54 Je '60. (MIRA 15:4)

1. Institut fiziologii truda, Stalino, Donbass. (LUNGS—DUST DISEASES)

NAVAKATIKYAN, A. O.; SHUL'GA, M. I. (Donetsk)

Changes in the nodose ganglia of the vagus nerves in experimental unilateral silicosis. Arkh. pat. no.2:27-32 '62.

(MIRA 15:2)

1. Iz laboratorii klinicheskoy fiziologii (zav. - A. O. Navakatikyan) i patomorfologii (zav. M. I. Shul'ga) Nauchno-issledovatel'skogo instituta fiziologii truda (dir. - kandidat meditsinskikh nauk B. N. Onopko).

(LUNGS-DUST DISEASES) (VAGUS NERVE)

SHULIGA, M.I. (Keyev, ul. Artema, 84. kv.5)

falot receptors in the Jungs. Arkh. anat., gist. i embr 47
no.8:87.91 Ag 164. (MIRA 18:4)

1. Laboratoriya patomorfologii (zav. - starshiy nauchnyy sotrudnik
M.N.Shullga) Donetskogo instituta fiziologii truda.

TOMILINA, T.N.; SHUL'GA, N.F.

New operating conditions of synchro-cyclotrons. Prib.i tekh.eksp.
no.3:16-17 N-D '56. (MERA 10:2)

1. Ob"edinennyy institut yadernykh issledovaniy.
(Cyclotron)

SHULICA ILS

Heat capacity of magnesium-zinc ferrite [with summary in English]. Ukr.fiz.zhur. 2 no.2:suppl:54-58. '57. (MIRA 10:7)

1. Chernivets kiy derzhavniy universitet.
(Magnesium ferrates)

SOV/81-59-9-30420

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, p 52 (USSR)

AUTHOR:

Shul'ga, M.S.

TITLE:

The Heat Capacity of Mg_Sb_

PERIODICAL:

Nauk. zap. Chernivets'k.un-t, 1958, Vol 34, pp 107 - 108 (Ukr.)

ABSTRACT:

The values of the heat capacity of Mg_3Sb_2 (cp) at $100-500^{\circ}C$ at intervals of $100^{\circ}C$ are presented as average values from measurements by various methods. The experimental data are compared to the data calculated by the formula which has been proposed earlier (Termicheskiye konstanty neorganicheskikh veshchestv. Izd.-vo AS USSR, 1949) cp = $28.2 + 5.60 \cdot 10^{-3}T$. The deviations amount to 2.4 - 3.6%.

A. Vorob'yev

Card 1/1

SHUL'GA, M.S. (g. Chernovtsy); SIDORYCHEVA, A.G.; SVIRIDOV, V.I.

(Rostov-na-Donu); SHEKHTERMAN, M.E. (g. Tiraspol');

ZHIGALOV, K.S. (pos. Bilimbay Sverdlovskoy oblasti); SERYAKOV, A.A. (Murom); SAKEVICH, N.M. (Vitebsk); KAZANTSEV, I.I.

Readers suggestions. Fiz. v shkole 21 no.6:80-81 N-D '61. (MIRA 14:12)

1. Turochakskaya srednyaya shkola Gorno-Altayskoy avtonomnoy oblasti (for Kazantsey).

(Physics—Experiments)

SHUL 174, IL 5. New varieties of meas from the "Uladovo-Liulinetskaia" Experimental Selection Station. Sel. i sem., 19, No. 2, 1952. 9. NOUT LY LIST OF RUSSIAN ACCESSIONS, Library of Congress, June 1952. Uncl.

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SHUL'GA, M.S., kand.sel'skokhozyzystvennykh nauk

Planting forage beans along with corn for silage. Zemledelie
(MTRA 15:4)
24 no.4:33-36 Ap '62.

1. Uladovo-Lyulinetskaya opytno-selektsionnaya stantsiya.
(Corn (Maize)) (Beans)

SHUL'GA, M.S., kand.sel'skokhozyaystvennykh nauk

Possibilities for increasing pea yields. Zemledelie 24
no.2:49-52 F '62. (MIRA 15:3)

1. Ulagovo-Lyulinetskaya opytno-selektsionnaya stantsiya.

(Peas)

SHUL'GA, M.S., kand. sel'skokhoz. nauk

Pea breeding at the Uladovka-Lyulintsy Experimental Breeding Station. Agrobiologiia no.2:179-183 Mr-Ap 164.

(MIRA 17:6)

1. Uladovo-Lyulinetskaya opytno-selektsionnaya stantsiya, Vinnitskaya oblast!.

SHUL'GA, N.

Repairing cavities in the varying water-level zone of the quay walls in the port of Batum. Mor. flot. 24 no.8:36-37 Ag 164. (MIRA 18:9)

1. Nachal'nik Novorossiyskoy gruppy ASPTR.

SHUL'GA, N.

Operation of engineering structures in the Black Sea region.
Mor.flot 25 no.1:36 Ja '65. (MIRA 19:2)

l. Nachal'nik Novorossiyakoy gruppy avariyno—spasatel'nykh, pod'yemno—tekhnicheskikh rabot Chernomorskogo parokhodstva.

SHUL'GA, N., inch.

Hydraulic Jacks for maintenance lines. Avt.transp. 41 no.10: 24-25 0 '63. (MIRA 16:10)

是一种,但是是特别的,我们就是我们是我们的,我们就是一个人,一个人的,我们就是一个人,我们就是一个人的,我们就是这个人的,我们就是我们就是我们就是一个人的人,他

SHUL'GA, N., polkovník

A communist is an active champion of party policy. Komm. Vooruzh. Sil. 3 no.13:35-41 Jl'63 (MIRA17:7)

l. Zamestitel' nachal'nika politicheskogo upravleniya Zakavkaz-skogo voyennogo okruga.

ACC NR: AP7003242

(A)

SOURCE CODE: UR/0198/66/002/012/0018/0026

AUTHOR: Shul'ga, N. A. (Kiev)

ORG: Institute of Mechanics, AN UkrSSR (Institut mekhaniki AN UkrSSR)

TITLE: Bending of thin physically nonlinear plates

SOURCE: Prikladnaya mekhanika, v. 2, no. 12, 1966, 18-26

TOPIC TAGS: elastic deformation, partial differential equation, successive approximation

ABSTRACT: The solution involving the bending of physically nonlinear plates is analyzed, using a successive approximation method. The first approximation corresponds to the linear problem and the n-th approximation is given by

$$-4D\frac{\partial^4 w^{(n)}}{\partial z^2 \partial \bar{z}^2} = \frac{\partial^2 A^{(n-1)}}{\partial z \partial \bar{z}} + \frac{\partial^2 B^{(n-1)}}{\partial \bar{z}^2} + \frac{\partial^2 \overline{B}^{(n-1)}}{\partial z^2},$$

together with expressions for the bending moments and the stresses. The difference $\mathbf{w}^{(n)} - \mathbf{w}^{(n)}$ is a biharmonic function and is given by the Kolosov-Muskhelishvili complex potentials or,

 $w^{(n)}-w^{(n)}=\operatorname{Re}\left(z\varphi^{(n)}(z)+\int\psi^{(n)}(z)dz\right).$

The characteristics of the multi-valued functions ϕ and ψ are investigated first,

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ACC NR: AP7003242

and then the case of an infinite singly-connected region is considered for the case where z possesses a conformal mapping of the exterior of this region onto the interior of the unit circle. The stress concentrations are given for a plate with a circular or elliptic hole. For example, under pure bending the second approximation of the bending moment around an elliptic hole yields

$$M_{\bullet}^{(2)} = M \left[2 - 48 \frac{1+v}{3+v} \frac{8-\cos 2\theta}{1-2 \cos 2\theta+e^2} + \frac{72}{5} (1+v) \frac{\gamma M^2}{G^2 h^4} + \frac{16}{25} \frac{(1+v)(421+692v+151v^2)}{(3+v)^2} 8 \frac{\gamma M^2}{G^2 h^4} \cos 2\theta \right].$$

Orig. art. has: 24 equations.

SUB CODE: 20/ SUBM DATE: 04Feb66/ ORIG REF: 003

Card 2/2

SHUL'GA, N.A. (Kiyev)

Banding of a thin plate weakened by a circular hole in case of a nonlinear law of elasticity. Prikl. mekh. 1 no.ll: 39-44 '65. (MIRA 19:1)

1. Institut mekhaniki AN UkrSSR. Submitted Feb. 26, 1965.

L 14013-66 FWT(d)/FWT(m)/FWP(w)/FWA(d)/FWP(v)/EWP(j)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)
ACC NR: AP6002334 EWA(h)/ETC(m)-6 SOURCE CONTROL CO SOURCE CODE: UR/0198/65/001/012/0015/0021 IJP(c) JD/WW/EM/RM AUTHOR: Tsurpal, I. A. (Kiev); Shul'ga, N. A. (Kiev) 50 ORG: Institute of Mechanics, Academy of Sciences UkrSSR (Institut mekhaniki AN UkrSSR TITLE: Basic equations of the thin shallow shell theory with consideration of the physical nonlinearity SOURCE: Prikladnaya mekhanika, v. 1, no. 12, 1965, 15-21 TOPIC TAGS: shallow shell, thin shallow shell, nonlinear shell theory, physically nonlinear shell ABSTRACT: A basic system of equations for the theory of thin shallow shells is constructed assuming a nonlinear dependence between stresses and strains of the shell material. The linear equations of the Theory of Thin Shells developed by V. V. Novozhilov, and the nonlinear stress-strain relationships established in the Nonlinear Mechanics by G. Kauderer are used in constructing the above-mentioned basic system of equations, with the assumptions that the Kirchhoff-Love hypotheses are valid, that the displacements and strains in the shell are small and cause stresses which are within the elastic range of the shell material, such as nonlinearly elastic materials (plastics) high-strength steels; nonferrous metals and their alloys, and others). (This system of nonlinear equations can also be used in investigating the shell behavior within the elastic-plastic stage of deformation. The system can be simplified

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			nonlinear equations, and to the solution of problems and holes in shells with the physical nonlinearity of		rea or ru	flie Stiett mace.						
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SUB	CODE:	20/	SUBM	DATE:	04Apr65	orio	REF:	003/	OTH RE	F: 003/	ATD PR	ESS:
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BERGMAN, A.G., SHULIGA, N.A.

Interaction of urea with the nitrates of lithium, sodium, potassium, and barium. Zhur. neorg. khim. 9 no.5:1218-1220 My 164. (MIRA 17:9)

1. Rostovskiy-na-Donu inzhenerno-stroitel'nyv institut.

CIA-RDP86-00513R001550130003-3 "APPROVED FOR RELEASE: 08/09/2001

s/078/60/005/03/025/048 Shul'ga, N. A., Bergman, A. G. AUTHORS: B004/B015

The Meltability in the System of Fluorides and Silicates of Sodium TITLE:

and Potassium

TO PETAL INDIFFERENCE STREET, PROGRAMME

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 649-653 (USSR) PERIODICAL:

The system Na, K || F, SiO3 was investigated by the visual-poly-ABSTRACT: thermal method. The authors mention the binary component systems (Fig 1, Table 1) that have already been investigated by other scientists: $Na_2F_2 - K_2F_2$ (Ref 10), $K_2F_2 - K_2SiO_3$ (Ref 7),

 $Na_2F_2 - Na_2SiO_3$ (Ref 4), and $K_2SiO_3 - Na_2SiO_3$ (Ref 3). The authors repeated the investigation of the last-mentioned binary systems which led to some corrections: 20 sections were examined in the system Na, K | F, SiO3 (Table 2, Figs 2-4). The crystallization sur-

face consists of the six crystallization zones of the four components and the two complex salts Na2SiO3.3K2SiO3, and

2Na2SiO3.3K2SiO3. The system is classified as a nondiagonal, semi-

reversible, reciprocal system. The crystallization zones meet in

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

LAPINER, M.Ya.; SHUL'GA, N.D. (Loningrad)

Diagnosis of periarteritis nodosa (Kussmaul-Maier disease). Klin. med. 35 no.9:153-154 S '57. (MIRA 10:11)

1. Iz kafedry gospital'noy terapii No.2 (nach. - prof. Z.M. Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. (PERIARTERITIS NODOSA, diag.)

CIA-RDP86-00513R001550130003-3 "APPROVED FOR RELEASE: 08/09/2001

1 W 1 6 1/1

137-58-3-5498

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 144 (USSR)

Shul'ga, N.G. AUTHOR:

TITLE:

Magnetic Roasting Treatment of Highly Coercive Fe-Ni-Al Alloys With Varying Co Content (K voprosu o magnitnotermicheskoy obrabotke vysokokoertsitivnykh zhelezo-nikel'-alyuminiyevykh splavov s razlichnym soderzhaniyem kobal'ta)

Nauchn. zap. L'vovsk. politekhn. in-t, 1956, Nr 43, pp 55-63 PERIODICAL:

ABSTRACT:

The four alloys (A) investigated contained no Cu and were composed of 20 percent Ni, 11.5 percent Al, and 6-12 percent Co. Specimens (S) of each A were cast with the following dimensions: 8x8 mm, 12x12 mm, 16x16 mm, and 20x60 mm. Heat treatment conditions ensuring optimal magnetic properties without the employment of a magnetic field (MF) were determined experimentally for each A and for the dimensions of each S; the changes in properties produced by superimposing an MF in the course of the heat treatment were then studied. It is established that in A's containing 6-12 percent Co, the superposition of an MF produces a significant increase in the magnetic energy, while the H_C remains almost unchanged; this is primarily

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

137-58-3-5498

Magnetic Roasting Treatment of Highly Coercive Fe-Ni-Al Alloys (cont.)

attributable to an increase in residual inductivity (which amounts to 16-20 percent in A's of small and medium cross sections). Increasing the Co content in the A does not substantially affect the results of the MF treatment, whereas the magnitude of magnetic energy is considerably increased. It is recommended that cooling in an MF be employed in the manufacture of magnets made of A's containing 6-12 percent Co.

V. M.

Card 2/2

SHULGA, N.G.

137-58-1-1240

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 166 (USSR)

AUTHORS: Shul'ga, N.G., Mikhaylov, A.K.

TITLE: Some Data on the Sulfidation of Steel and Iron (Nekotoryye dan-

nyye po sul'fidirovaniyu stali i chuguna)

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-t, 1956, Nr 43,

pp 130-136

ABSTRACT: An investigation of various procedures for sulfidation (S) of

steel and iron. It was established that at temperatures of 200-300°C, S virtually does not occur. When S is performed at temperatures of 560-570°C in a bath, followed by holding for

1-6 hours, the bath contents being (%):

FeS 13.2, Na_2SO_4 3.4, K_4Fe (CN)₆ 3.4,

the rest being neutral chlorine salts, a diffusion layer is formed. The structure of the sulfides is complex and is not always revealed by etching. S increases the wear resistance of steel and iron to friction with lubricant. Under the conditions of solid friction, S affords no advantages. Bibliography: 10 references.

Card 1/1

M. Ch.

1. Steel-Sulfation-Processes 2. Iron-Sulfation-Processes

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

Translation from. Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 244 (USSR)

AUTHOR: Shul'ga, N.G.

TITLE:

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The Structure and Magnetic Properties of Iron-nickel-aluminum Alloys With Small Amounts of Added Si (Struktura i magnitnyye svoystva zhelezo-nickel'-alyuminiyevykh splavov s nebol'shimi

dobavkami Si)

PERIODICAL: Dokl. L'vovsk. politekhn. in-ta, 1957, Vol 2, Nr 1, pp 223-228

The effects of addition of Si upon the properties of alni alloy ABSTRACT

(Al-Ni-Fe) are investigated. It is found that the magnetic properties in the cast state are lower than after heating and cooling. Addition of Si significantly improves hardenability. Research data make it possible to assert that when it is necessary to obtain high residual induction with some reduction in coercive force, the addition of 0.25 percent Si to the alloy, with reduced Al content, is to be recommended, as is heat treatment with oil quenching. Experimental results obtained show that the value of the coercive force is determined not only by the dimensions and shapes of the precipitated ferromagnetic phase, but apparently to a considerable

degree by the natural matrix. Card 1/1

> 1. Iron nickel aluminum alloys...Mechanical properties nickel aluminum alloys-Magnetic properties cations

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

SOV/137-59-3-6466D

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 218 USSR)

Shulga, N.G. AUTHOR:

An Investigation of Means for Improving the Magnetic Properties of TITLE:

Highly Coercive Fe-Ni-Al Alloys (!zyskaniye sposobov povyskeniya magnitnykh svoystv vysokokoertsitivnykh zhelezo-nikel-alyuminiyevykh

PERIODICAL: Author's dissertation for the degree of Doctor of Technical Sciences, presented to the Livovsk. politekhn. in-t (Livov Polytechnic Institute),

Lvov, 1958

ABSTRACT: The highly coercive Fe-Ni-Al alloys investigated were subjected to step-wise heat-treatment procedures without being subjected to the

influence of a magnetic field. The effect of various procedures of step-wise magnetic-thermal treatment on the magnetic properties of alloys containing 2-12% Co was studied together with the effect of various heat-treatment procedures on the magnetic properties of alloys containing small quantities of Si, Ti, and Si+Ti+Gu. Alloys in

equilibrium and highly-coercive states were investigated with the aid of an electron microscope, and a relationship was established between

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

SOV/137-59-3-6466D An Investigation of Means for Improving the Magnetic Properties (cont.)

their structure and their magnetic properties.

I.B.

ASSOCIATION: L'vovsk. politekhn. in-t (L'vov Polytechnic Institute), L'vov.

Card 2/2

3/137/61/000/012/005/149 A006/A101

Shul'ga, N.G., Mikhaylov, A.K.

Investigating the effect of some factors on starility of base metal AUTHORS:

thermocouples TITLES

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 13, abstract 12E83 ("Dokl. L'vovsk. politetkhn. in=ta", 1958, v. 2, 307 - 312) PERIODICAL:

An investigation was made of the causes affecting the deviations of thermocouple readings during their operation. The experimental set-up is described, maximum deviations and readings of the thermocouples are presented, obtained during holding and periodical checking at constant temperature. The accuracy of the thermocouple readings is influenced by 1) non-homogeneity of the thermo-electrode material; 2) changes in the metal structure during operation of the thermocouples; 3) errors in the measurement of thermo-emf; 4) presence of parasitic thermo-emf in the connecting conductors and terminals; 5) insufficient immersion depth of the thermocouple into the medium where the temperature is determined. The greatest effect on the stability of thermocouple readings is exerted by the degree of homogeneity and structural changes of the metal during

Card 1/2

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sov/137-59-12-27371

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 12, p 235 (USSR)

12,1142 AUTHOR:

Shul'ga, N.G.

Improvement of Magnetic Properties of High-Coercive Alloys TITLE:

Byul. tekhn. ekon. inform. Sovnarkhoz L'vovsk. ekon. adm. r-na, 1958, PERIODICAL:

Nr 9. pp 36 - 37

The author investigated the possible admixture of small amounts of Si, ABSTRACT:

Ti, joint admixtures of Si and Ti, Ti and Cu, Si and Cu to triple Fe-Ni-Al alloys of the aluminum mickel type in order to raise their magnetic properties (Br). It was established that the admixture of 0.25% Si or 0.5% Ti to Fe-Ni-Al alloys reduced ${\rm H_{C}}$ and increased ${\rm B_{r}}$. By the simultaneous introduction of Si and Ti to aluminum-nickel alloys, $H_{\rm C}$ of 580 - 600 oersted and $B_{\rm r}$ of 6,400 - 6,200 gauss may be obtained. Stepped magneto-thermal treatment of aluminum-nickel alloys with a low C content increases the magnetic energy of these alloys by 17 - 20%. For

aluminum-nickel-cobalt alloys with Co > 6%, the application of a magnetic Card 1/2

CIA-RDP86-00513R001550130003-3" APPROVED FOR RELEASE: 08/09/2001

69191

Improvement of Magnetic Properties of High-Coercive Alloys

SOV/137-59-12-27371

field in heat treatment is absolutely recommended. Magnetic properties equivalent to those of "12" aluminum-nickel-cobalt alloy may be obtained by varying the proportion of basic components in alloys with about 4% Co.

I.B.

X

Card 2/2

18.1142

68694 s/180/60/000/01/018/027 E073/E135

Shul'ga, N.G. (L'vov)

AUTHOR:

Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, Nr 1, pp 127-133 (USSR)

ABSTRACT: Development of new high coercive force materials in recent years consisted mainly of developing alloys with

high cobalt content. Due to high cost and various technological factors this does not satisfy requirements. The use of alni type alloys is limited due to their relatively low residual induction. Therefore, the possibility of producing alni alloys with increased residual induction is of great scientific and practical interest. In this paper the author deals with improving

the magnetic properties of almi alloys by appropriate heat treatment, addition of small quantities of cobalt combined with the most effective methods of heat treatment and some other methods which are described in the paper.

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The influence of small quantities of silicon on the structure and the magnetic properties of alni alloys was

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

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s/180/60/000/01/018/027 E073/E135

Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

investigated on four alloys which, in addition to Fe, contained the following: Alloy Nr 1 - 24.20% Ni, 10.10% Al, 0.06% Si; Alloy Nr 2 - 23.94% Ni, 10.21% Al, 0.28% Si; Alloy Nr 3 - 24.08% Ni, 10.13% Al, 0.52% Si; Alloy Nr 4 - 23.39% Ni, 10.34% Al, 0.79% Si. Alloy Nr 4 - 23.39% Ni, 10.34% Al, 0.79% Si. Table 2 contains data on the magnetic properties of the investigated alloys after optimum heat treatment; in Fig 1 the changes are plotted of the coercive force, of the residual induction and the magnetic energy of alloys after casting and heat treatment for obtaining optimum obtaining a high residual induction at a slightly reduced coercive force, it is advisable to add 0.25% Si to alloys with a reduced content of aluminium and heat treatment in the case of quenching in oil, and a 0.50 to 0.75% Si addition for alloys which are to be cooled in still air. For alloys of the here given composition $H_c = 230$ to 350 Oe, $B_r = 8700$ to 7800 Gauss can be obtained. the dependence between the structure and the magnetic properties, the alloys were subjected to chemical, phase,

Card 2/7

68694 s/180/60/000/01/018/027 E073/E135

Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

X-ray structural and electron microscope investigations after various types of heat treatment. Some of the results are given in Table 3. To study the influence of titanium on the structure and magnetic properties of alni alloys with a low aluminium content, alloys were studied with compositions as given in Table 4, p 129, the titanium content varying between 0.51 and 2.10%. It was found that for all heat treatment variants addition of 0.5% Ti would lead to an appreciable increase of the residual induction and to a drop in the coercive force, whereby the magnetic energy remains almost unchanged.

After cooling in still air in alloys containing 1.0 to 2% Ti residual induction decreases, whilst the coercive force and the magnetic energy increase. With further increase of the titanium content a sharp drop in the coercive force is observed, whereby the residual induction changes little. Study of the influence of tempering on the magnetic properties of alloys heated to 1230 to 1250°C and cooled in still air indicates that for all the alloys

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Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

under consideration tempering at 550 to 650 °C does not bring about an appreciable change in the coercive force but for some of the studied alloys it does cause a sharp increase in the residual induction; for specimens of an alloy containing 2% Ti the residual induction increased from 6400 to 7500 Gauss (specimens 16 x 16 x 60 mm). For alloys of the mentioned average composition the following values can be obtained: H_c = 280 to 400 0e, and $B_{\mathbf{r}} = 7100$ to 7500 Gauss. Analysis of the results of investigation of the equilibrium state of titanium containing alloys leads to the assumption that an increase in the difference between the periods of the decomposition phases, preferential alloying of the NiAl matrix with titanium, brings about an acceleration of the process of phase isolation. The presence of a new phase also has an appreciable influence on the kinetics of transformation. In particular it was established that the β_2^1 -phase reduces considerably the inclination to supercooling of alloys. The author also studied a number

Card 4/7

68694 \$/180/60/000/01/018/027 E073/E135

Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

of cobalt alloyed alni alloys in which the nickel and aluminium contents were varied but the cobalt content was maintained constant at 4%. The compositions of the investigated alloys are given in Table 5, p 131.

Alloys containing between 21 and 27% Ni and an average of 10% Al were found to have very poor magnetic properties. Of the alloys containing 12% Al, the one with 24% Ni and of the alloys containing 12% Al, the one with 24% Ni and 4% Co reached values of Hc = 440 to 450 Oe, Br = 6750 to 6800 Gauss after heating to 1230-1250 oC, quenching in oil and tempering at 700 oC in the case of specimens of 16 x 16 mm cross-section; still better magnetic properties were obtained for specimens of 12 x 12 mm cross-section. The best magnetic properties for the alloy cross-section. The best magnetic properties for the alloy cross-section in an earthen mould with cooling down to 1000 to 1100 oC, soaking for 5 to 10 min at 1250 oC, quenching in boiling water and tempering for 1.5 hours at 750 oC. The resulting magnetic properties were: 750 oC. The resulting magnetic properties were: Hc = 550 to 600 Oe, Br = 7100 to 6300 Gauss. In Fig 4

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Search for Methods of Increasing the Magnetic Properties of High Coercive Force Magnetic Alloys

the magnetic properties are plotted of this alloy after various heat treatments; from the point of view of the magnetic properties this alloy is equivalent to alnico. A series of alloys with compositions as given in Table 6 containing 6 to 12% Co were used for studying the influence of the magnetic field during heat treatment on the magnetic properties of alnico alloys. The investigated alloys had average contents of 20% Ni, 11.5% Al and 6-12% Co. Specimens 60 mm long and respectively 8 x 8, 12 x 12, 16 x 16 and 20 x 20 mm were used in the tests. Table 7 showsthe changes in the magnetic properties for the alloy Nr 16 (20.1% Ni, 11.3% Al, 6.1% Co, rest Fe) resulting from the application of a magnetic field as compared with the magnetic properties after optimum heat treatment. On the average, the increase of the residual induction resulting from the application of a magnetic field is 16 to 18% for alloys with 6% Co, whereby the higher residual inductions apply, to specimens of smaller cross-sections. Magnetic

Card 6/7

37975

\$/137/62/000/005/095/150 A006/A101

121140

Shul'ga, N. G. AUTHOR:

Magnetic properties of iron-nickel-aluminum alloys with high values TITLE:

of residual induction

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 64, abstract 51381

("Dokl. L'vovsk. politekhn. in-ta", 1961, v. 5, no. 1, Mekhanika,

158 - 161)

The author investigated alloys containing 24% Ni, 10% Al, two of TEXT: which were additionally alloyed with Si 0.06 - 0.52%, and 4 alloys with Ti 0.54 -1.97% (the rest Fe). A reduced Al content in these alloys promotes an increase of residual induction B_{r} and a decrease in H_{c} . In alloys with 0.5% Ti, B_{r} increases and H_c decreases; in alloys with 2% Ti, B_r drops and H_c and the magnetic energy increase. In all investigated alloys a heterogeneous structure is observed after annealing, quenching and treatment for optimum magnetic properties (high-coercive state). The magnitude of $\rm H_{C}$ varies from 250 - 400, and $\rm B_{r}$ from 8,500 to 7,500 depending on the heat treatment conditions. Diagrams are presented

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"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550130003-3

S/137/62/000/005/095/150 A006/A101

Magnetic properties of ...

showing the electron-microstructure of an alloy in 5,000 magnification in annealed state, and in 40,000 magnification, after quenching and treatment for maximum $H_{\rm c}$.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 2/2

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s/137/62/000/005/140/150 A052/A101

1.2316

AUTHORS:

Gal'chinskiy, L. V., Shul'ga, N. G.

TITLE:

The effect of capacity at electrostatic welding on the thermal welding cycle, structure and strength of the welded joint

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 46, abstract 5E241 ("Dokl. L'vovsk. politekhn. in-ta", 5, no. 1, 1961, Mekhanika,

183 - 188)

The effect of capacity of capacitors was investigated when welding TEXT: the Cu-filament end of a bulb to the low-carbon zinc-coated steel base. The capacity was varied within 20 - 120 µF at a constant charging voltage of capacitors of 520 volts, at the transformation ratio of the welding transformer of 220 and at a pressure on the welding spot of 7 kg. The change of capacity at electrostatic welding affects essentially the thermal welding cycle which, in its turn, leads to a change of the welding spot structure and of the strength of the welded joint. At the above-mentioned constant parameters the maximum strength of welded joints is reached at a capacity of 120 $\mu {
m F}$. V. Klyuchnikova [Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

SHUL'GA, N.G.; GAL'CHINSKIY, L.V.

Phase transformations in the system iron - zino - copper during condenser discharge welding. Izv. vys. ucheb. zav.; chern. met. 5 no.9:180-187 '62. (MIRA 15:10)

ACCESSION NR: AP3010786 S/0148/63/000/009/0156/0160

AUTHORS: Shul'ga, N. G.; Zamora, M. F.

TITLE: Dilatometric analysis of phase transformations in high-chrome steel

SOURCE: IVUZ. Chernaya metallurgiya, no. 9, 1963, 156-160

TOPIC TAGS: dilatometer, dilatometric analysis, dilatometry, phase transformation, steel, high-chrome steel, chrome, chromium, martensite steel, Khl3 steel, Khl7 steel, Khl8MTF steel, carbon, nickel

ABSTRACT: Authors carried out dilatometric studies on samples of Kh13, Kh17 and Kh18MTF steels. Microstructure of all annealed steel samples was ferrite with grain size of 8-5 and with a small amount of carbides. After hardening, the microstructure of the Kh18MTF steel sample remained ferrite, but the grain size was increased considerably and the carbide quantity visible under a microscope was reduced. The Kh13

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ACCESSION NR: AP3010786

steel had a martensite structure with a certain amount ferrite after hardening. Microstructure of the Kh17 steel samples depends largely upon their chemical composition. The microstructure of hardened Kh17(5) steel sample with a content of chromium on the upper and of carbon and nickel on the lower strain limit does not differ from Kh18MTF steel microstructure. The remaining Kh17 steel samples have a ferrite-martensite structure after hardening. The transformations in the steels were analyzed in connection with an analysis of the problem concerning the possibility of utilizing high-chrome steels without any other alloying additions in metal-to-glass seals. The measurements were carried out on a Chevenauer differential dilatometer with optical recording. Samples were heated to 1000-1100C. Higher temperatures were not used because the quartz begins to deform and precise measurements cannot be effected. Analysis of dilatometric curves shows that a ferrite-austenitic transformation takes place in some of the steels. No transformations take place in the case of Kh18MTF and Kh17(5) steels at heating up to

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ACCESSION NR: AP3010786

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1100C. Curves for the Khl7 steels of other heats are also somewhat close to the curves for Khl8MTF steel at a temperature below critical, but differ by a change in path of the curve during ferrite-austenitic transformation. A reduction in the specific volume takes place in the Khl7(17) samples at 1000C, corresponding to an α -y transformation. In some of the chrome steels (Khl3, Khl7) with a content of carbon and nickel on the upper strain limit, an austenite-martensite transformation can occur with air cooling, accompanied by an increase in volume and taking place at temperatures when the glass had already lost its plasticity. For this reason, they are unacceptable for glass-to-metal seals. In the case of a non-ferrite, high-chrome steel with glass seal, the utilization of heat treatment methods, assuring a non-martensite transformation, is the determining factor. Orig. art. has: 3 figures.

ASSOCIATION: L'vovskiy politekhnicheskiy institut (Lvov polytechnic institute)

Card 3/4

L 57528-65 EPA(s)-2/EWT(m)/EWP(w)/EPI EWP(b) Pad/Ps-4/Pu-4 IJP(c) JD/HV ACCESSION NR: AR5015191	UR/0137/65/000/005/1060/1060
SOURCE: Ref. zh. Metallurgiya, Abs. 5138	7 58 B
AUTHOR: Shul'ga, N. G.; Afanas'yev, P. D. TITLE: Magnetic properties of iron-nicke	12 aluminum alloys with additions of
ragnitov, 1962. Saratov, 1964, 55-62	아이 회원 이 집으로 하지 때 집에 돌아 들었다. 그렇게 하다 들어가 나타다는 이번 한 문화를 문화를 통화를 들었다.
TOPIC TAGS: iron base alloy, nickel cont silicon containing alloy, titanium contai magnetic property, demagnetization, magne	tic alloy, ferromagnetic material
TRANSLATION: A study was made of the efficient construction and the magnetic properties of Almi alloys. Silicon should be added. To increase Honecessary also to add up to 0.5% columbing increase the coefficient of curvature of Columbium decreases gamma. With introductions of the contraction of the columbian decreases gamma.	fect of silicon, titanium, and niobium on to increase magnetic energy, 0.3-0.5% with an acceptable lowering of Br, it is
Card 1/2	

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ACCESSION NR: AR5015191	어른 아이들의 이 이 이 사는 어머니는 어머니는 일부의 사는 생생님의 회원에 가장하다. 어머니는 불다고 되는 것은	Ó	
decreases. (From R. Zh.	Elektrotekhnika)		
SUB CODE: MM	encl: 00		
Card 2/2			

SHUL'GA, N.G.; ZAMORA, M.F.

Characteristics of the use of alternating current for structural analysis of ferromagnetic materials by the electric resistance metrod. Defektoskopiia no.1:82-86 '65. (MIRA 18:6)

1. L'vovskiy politekhnicheskiy institut.

EWT(m)/EWP(w)/EPF(c)/EPF(n)-2/EWA(d)/EPR/T/EWP(t)/EWP(z)/EWP(b)/ L 55254-65 JD/HW/JG UR/0145/65/000/003/0125/0132 669•15 IJP(c) Pad/Fr-4/Ps-4/Pu-4 EWA(c) ACCESSION NR: AP5010376 AUTHORS: Shul'sa, N. G. (Doctor of technical sciences, Professor); Afanas'yev, P.D. (Candidate of technical sciences); Yaremkevich, S. K. (Aspirant) TITLE: Structure, magnetic properties, and new testing methods of several highly coercive alloys based on the Fe-Ni-Al system 17 21 27 SOURCE: IVUZ. Mashinostroyeniye, no. 3, 1965, 125-132 TOPIC TAGS: magnetic material, coercive force, magnetic field ABSTRACT: As a continuation and extension of previous work (P. D. Afanas'ev. Issledovaniye struktury i magnitnykh svoystv litykh vysokokoertsitivnykh zhelezoinkel'-alyuminiyevykh splavov s prisadkami kreminya, niobiya, titana i azota, Kandidatskaya dissertatsiya, L'vovskiy politekhicheskiy institut, L'vov, 1963), the structure and magnetic properties of 17 different alloys based on the Fe-Ni-Al and Fe-Ni-Al-Co systems were investigated, and new methods of determining the magnetic properties were tried. Electron microscopic investigation of the alloy structures supported the findings of N. G. Shul'ga (Izyskaniye sposobov povysheniya magnitnyki svoystv vysokokoertsitivnykh splavov, "Izvestiya AN SSSR, OTN, Metallurgiya i **Card** 1/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

6

L 55254-65

ACCESSION NR: AP5010376

toplivo," 1960, No. 1) that elements entering the β -phase determine the residual induction, while the high coercive forces are dependent on the alloying element content in the matrix. The properties and heat treatments of the 17 alloys area summarized in Table 1 on the Enclosure, from which it can be seen that Tilled, and N increase the coercive forces of the alloys, while Si lowers them. Si increases the residual inductance, Ti and Nb decrease it, while N has no significant effect. Two methods of determining the magnetic properties were tried, using an AC induction method with an oscilloscope and using the Hall effect in a DC apparatus. In the first method the $12 \times 12 \times 60$ mm samples with the induction oils were placed in a strong field permeameter where they were AC magnetized. The magnetizing coil and induction coil signals were viewed on an oscilloscope and a hysteresis curve could easily be generated with 4-5% accuracy. In the second method a Hall transducer (made of n-Ge) in a special nonmagnetic holder was placed on the neutral line of the sample, perpendicular to the magnetic flux. The magnetic field strength was measured and thus the coercive force of the permanent magnets. The apparatus has to be recalibrated for each new sample geometry. These methods have been incorporated in a magnetic testing apparatus described by P. P. Markin (Elektronnoye ustroystvo ferrotestera dlya ispytaniya postoyannykh magnitov, "Izvestiya vyzov. Elektromekhanika, 1962, No. 4). Orig. art. has: 5 figures, 3 formulas, and 2 tables.

Card 2/4

ACCESSION NR. AP5010376 ASSOCIATION: L'vovskiy politekhnicheskiy institut (L'vov Polytechnical Institute)					
SUBMITTED: 280ct64	ENCL: 01	SUB CODE: MM, EM			
NO REF SOV: 008	OTHER i 000				
Card 3/4					

SHUL'GA, N.G., doktor tekhn. nauk, prof.; ZAMORA, M.F., inzh.

Investigating dilatometric curves and electric resistance of high-chromium steel depending on the phase composition. Izv. vys. ucheb. zav.; mashinostr. no.3:133-143 '65. (MIRA 18:6)

1. L'vovskiy politekhnicheskiy institut.

MAKSAKOV, Vasiliy Gavrilovich; SHUL'GA, N.I., redaktor; SAMSONOV, S.S., redaktor; KARASIK, N.P., tekhnicheskiy redaktor.

[Operations of narrow-gauge locomotives in lumbering; aid to locomotive machinists] Ekspluatatsiia uskokoleinykh parovosov na lesozagotovkakh; v pomoshchi mashinistu parovosa. Moskva, Goslesbumisdat, 1954. 61 p.

(MLRA 7:12)

(Locomotives)

SOV/124-58-3-3476

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p126 (USSR)

AUTHOR: Shul'ga, N. I.

TITLE: Investigation of the Dynamic Characteristics of 750-mm-gage

Lumber-hauling Railroad Locomotives (Issledovaniye dinamicheskikh kharakteristik lokomotivov lesovoznykh zheleznykh

dorog kolei 750 mm)

PERIODICAL: Tr. Tsentr, n.-i. in-ta mekhaniz. i energ. lesn. prom-sti,

1957, Vol 6, pp 111-140

ABSTRACT: Bibliographic entry

Card 1/1

SHUL'CA, N. I.: Master Tech Sci (diss) -- "Investigation of the operating properties of the locomotives of forest rail lines with 750-mm wheels on the basis of their traction and dynamic characteristics". Moscow, 1958. 28 pp (Min Higher Educ USSR, Moscow Forestry Engineering Inst), 130 copies (KL, No 4, 1959, 128)

SHUL'GA, N.K.

On the 50th anniversary of the Land Improvement Engineering
Institute of Novocherkassk. Gidr. i mel. 10 no.4:55-59 Ap 158.

(MIRA 11:5)

1. Direktor Novocherkasskogo inzhenerno-meliorativnogo instituta. (Novocherkassk--Hydraulic engineering---Study and teaching)

GARIN, K.S., kand.sel'khoz.nauk; KOVAL', V.D., kand.sel'khoz.nauk; SHUL'GA, N.K., kand. sel'khoz.nauk; ORLOVA, V.P., red.; BELOVA, N.N., tekhn. red.

[Irrigation of corn]Oroshenie kukuruzy. Moskva, Sel'khoziz-dat, 1962. 79 p. (MIRA 16:3) (Corn (Maize))--Irrigation)

KOVAL', V.D., dotsent (Novocherkassk); SHUL'GA, N.K., dotsent (Novocherkassk)

Economic effectiveness of the saturation irrigation of grain crops.

Gidr. i mel. 17 no.1:1-7 Ja '65.

(MIRA 18:4)

MASLOV, Nikolay Nikolayevich; SHUL'GA, Nikolay Maksimovich; POSTERNYAK, Ye.F., red.; VASIL'YEV, Yu.A., red. 1zd-va; BELOGUROVA, I.A., tekhn. red.

[Automatic devices for program control of the running-in and testing of engines] Avtomaticheskie programmye ustroistva dlia upravleniia protsessom prirabotki i ispytaniia dvigatelei.

Leningrad, 1962. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Mekhanicheskaia obrabotka, no.6)

(Gas and oil engines—Testing)

(Gas and oil engines—Testing)
(Automatic control)

SHUL'GA, N.S.

Bionomic conditions in the Haykop Basin of the Crimea. Trudy
Inst.min.resur.AN URSE no.1:43-50 '59. (HIRA 12:8)

(Crimea...Zoology.-Ecology)

SHEVCHENKO, L.F.; PYASETSKAYA, Ye.N.; GORBACH, G.I.; SHUL'GA, O.Ye.

Study of outbreaks of epidemic hepatitis in two villages of Ghernogov Province. Zhur.mikrobiol.,epid.i immun. 40 no.12:114 D '63. (MIRA 17:12)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii i Chernigovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

SHUL'GA, P. I.

Electric Relays

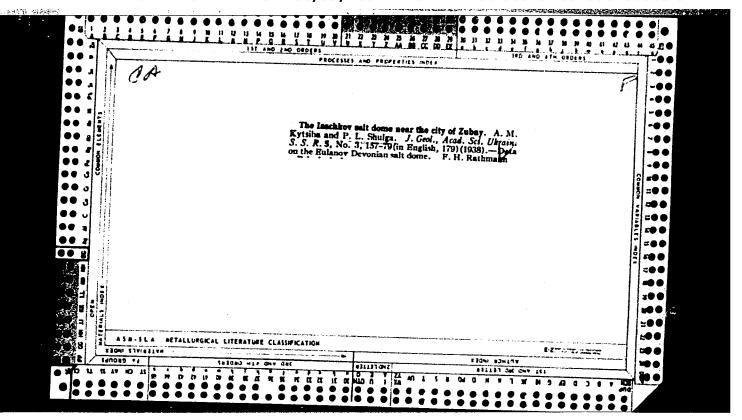
Automatic control of the working condition of two way tubes of high frequency protective relays. Elek. sta. 23 no. 3, 1952 Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, July 1959, Uncl.

SAVINOV, Ye.P.; GELESKUL, N.N.; SHUL'GA, P.I.

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1. Zamestitel' nachal'nika Kurganskoy distantsii zashchitnykh lesonasazhdeniy Yuzhno-Ural'skoy dorogi (for Savinov).
2. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, stantsiya Uzlovaya, Moskovskoy dorogi (for Geleskul). 3. Starshiy inzh. distantsii zashchitnykh lesonasazhdeniy, stantsiya Uzlovaya, Moskovskoy dorogi (for Shul'ga).



MCn the Sarboniferous Deposits of the LVOV Trough," Dok. AN, 51, No. 1, 1946. 51946-

SHUL'GA, P. L.

Shul'ga, P. L. "On the systematization of the Upper Paleozoic <u>Trigoniidae Lam."</u>, Geol. zhurnal, Vol. IX, Issue 4, 1948, p. 37-50, (In Ukrainian; resume in Russian),

SO: U-3261, 10 April 53, (letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

SHUL'GA, P. L.

Mbr., Inst. Geology, Dept. Physico-Math. & Chem. Sci., Ukr. Acad. Sci., -c1949-. "Unconformity in the Deposits of the Lower Carboniferous of the Livov Synchine," Dok. AN, 69, No. 1, 1949.

D. Ye. Ayzenberg, M. E. Brazhnikova, Ye. O. Novik

SHUL'GA, P.L.

Volhynia

The Paleozoic era of the western Wolyn/and of the Southwestern part of the Brest obl. of BSSR - Belo.

Dok AN SSR Vol 80, no. 1, 1 Sep 51, p. 89

SHUL'HA, P.L.; SEMENENKO, M.P., diyanyy chlen.

年上心是我生活,是是你在最近的影響者是是一种,我也不是他也不是一个。

On the age of the ancient arkosic stratum of the southwestern boundary of the Russian Platform. Dop.AN URSR no.4:320-323 '52. (MLRA 6:10)

SHUL'GA, P. L.

"Principal Stages in the Development of Pelecipods in the Carboniferous of the Galicia-Volhynia Depression", Geologichniy Zh. AN URSR, 13, No 4, 33-46, 1953 (Ukrainian).

In the Carboniferous of the Galicia-Volhynia Basin have been distinguished six biostratigraphic complexes of marine pelecipods. The first four complexes comprise the Vladimir, Ustiluzh, Porits, Ivanov, and Lishnyan zones and characterize the Lower Carboniferous; the upper two complexes (Morozovich, Paromov and Krechev zones) are decidedly Middle Carboniferous. (RZhGeol, No 5, 1954).

SO: Sum. No. 443, 5 Apr. 55

SHUL'GA, P.L.

USSR/ Geology - Zoology

1/1 Card

Pub. 46 - 7/24

Authors

: Shul'ga, P. L.

Title

On the pelecypoda in the carbon strata of the Calician-Volhynian depression and their stratigraphic importance

Periodical : Izv. AN SSSR. Ser. geol. 6, 75-84. Nov-Dec 1954

Abstract

Pelecypoda remnants discovered in the carbon strata of the Galician-Volhynian depression are described and certain questionable problems regarding the stratigraphy of this fauna deposit group are explained. Twelve references: 7 USSR; 2 Polish; 1 German and 2 Belgian (1924-1952). Table.

Institution :

Submitted

: January 18, 1954

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

BRAZHNIKOVA, N.Ye.; ISHCHENKO, A.M.; ISHCHENKO, T.A.; NOVIK, Ye.O.; SHUL'GA, P.L.: BONDARCHUK, V.G., akademik, otvetstvennyy redaktor.

[Fauna and flora of Carboniferous deposits of the Galician-Volyn Lowland] Fauna i flora kamennougol'nykh otlozhenii Galitsiisko-Volynskoi vpadiny. Kiev, Izd-vo Akademii nauk Ukrainskoi SSR, 1956. 409 p. (Akademiia nauk URSR, Kiev. Institut geologichnykh nauk. Trudy. Seriia stratigrafii i paleontologii, no.10) (MLRA 9:11)

1. Akademiya nauk URSR (for Bondarchuk). (Galician-Volyn Lowland--Paleontology, Stratigraphic)

SHUL'GA, P.L.; GALAKA, A.I.

Carboniferous deposits in the northeastern slope of the Ukrainian crystalline shield. Geol.zhur.16 no.4:15-30 '56. (MLRA 10:2) (Ukraine--Geology, Stratigraphic)

SHUL'GA, P.L.

"System of Etratigraphic correlation of lower Carboniferous deposits in the greater Donets Basin." Article by D.E.Aizenverh, E.E.

Brashnikova, Reviewed by P.L.Shul'ga, Geol, shur.16 no.4:77-61 '56.

(Donets Basin--Geology, Stratigraphic) (MLRA 10:2)

(Aizenverh, D.E.) (Brashnikova, N.E.)

THE RESERVE THE PROPERTY OF TH

SHUL'GA, P.L.; ISHCHENKO, A.M.; ISHCHENKO, T.A.; GORAK, S.V.

On the Devonian supersaline series in the region of Kalaidintsy in the Dnieper-Donets Lowland. Dop. AN URSR no.2:165-168 '57.

(MLRA 10:5)

1. Institut geologichnikh nauk AN URSR. Predstaviv akademik AN URSR V.G. Bondarchuk. (Dnieper Lowland--Geology, Stratigraphic)

SHUL'GA, P.L.: GORAK, S.V.

Some results of the Dnieper-Donets geological expedition of the Academy of Sciences of the U.S.S.R. in the summer of 1956. Vienyk

AM URSR 28 no.2:54-56 F '57. (MLRA 10:4)
(Dniper Valley--Geological surveys) (Donets Basin--Geological surveys)

5A.+1 SHUL

AUTHOR TITLE

SHUL GA Folio.

On the Break in the Deposits at the Boundary Between the Bashkirian

and Moscow Stages in the Dnepr - Denets Depression. (O pereryve v otlozheniyakh na granite Bashkirskogo i Moskovskogo yaru-

sov v Dneprovsko-Donetskoy vpadine Russian) Doklady Akademii Nauk SSSR,1957,Vol 113, Nr 5,pp 1127-1129(U.S.S.R.)

Received 7/1957

ABSTRACT

PER IODICAL

The middle carbonaceous deposits in the Dnjepr-Donets-depression have been known since a relatively long time. Up to now it was considered as established that the middle carboniferous forms an uninterrupted mass in this depression. The first informations about break came from the bore-hole near Chernigov. Here the boundary between the Bashkirian and the Moscow stage was very sharp. In the upper part of the first Carbonicola aquilinasow. was found. This corresponds to the suite Ca of the Donets-basin. This fact seems to indicate that in this profile the upper strata of the Bashkirian stage (corresponding to the suite Ca of the Donets-basin) are lacking.

The author comes to following final conclusions: 1) The conglomeration of deposits in the course of the middle carboniferous was discontinuous in the Dnjepr-Donets-depression. The main break is

here at the boundary of the Bashkirian and Moscow stages. 2) The break was accompanied by an erosion (denudation) of Bashkirian deposits which is particularly deep in the vaultnear parts of the salifer-

Card 1/2

3) The beginning of the Moscow sedimentation on various structure-elements

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550130003-3"

AUTHORS

Shullar,

Shul'ga, P.L., Ishchenko, A.M.,

20-4-42/60

TITLE

Ishchenko, T.A. and Gorak, S.V.

New Data Concerning the Devonian of the Dnepr. Donets

Depression.

(Novyjedannyje o devone Dneprovsko-Donetskoj vpadiny.)

PERIODICAL

Doklady Akademii nauk SSSR, 1957, Vol. 115, Nr 4,

pp. 780-782 (USSR)

ABSTRACT

Devonian deposits in a normal, undisturbed stratification above the salt mass in the above-mentioned depression were hitherto unknown, although they were since 20 years discovered in breccias at several places. This rendered difficult the determination of the character of the upper salt mass as well as of its age. Just as unsolved remained the problem of the salt age, although several researchers stubbornly ascribed to it a Jivet age. Below the Devonian of the Chernigov elevation and the Pripyat' depression no salt was found. The Pripyat' depression is recently considered by some geologists as a structure independent of the Dnepr-Donets depression. This gave rise to the assumption of a different facial stand of the Devonian in these two regions and of a different age of salt in them. It was not before a

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New Data Concerning the Devonian of the Dnepr-Donets Depression.

deep boring near the village Kalaydintsy (northwest of Lubny) in the year 1956 that clearness was obtained. But the Devonian layers were wrongly classified with the Carboniferous, in spite of the Devonian age of the spores determined from it. Upper Visé deposits occur in the Devonian roof. Numerous foraminifera were determined here which indicate an agreement of the contained rocks with the lower half of the City zone of the Donets

basin. After a thorough description of the individual layers and the fossils contained in them the authors come to the following conclusion:

- 1) Apart from the salt and the lewer portion of salt the Devonian is in the Dnepr-Donets depression represented by a normally deposited thick (about 2000 m) mass of Upper Devonian upper salt deposits. They correspond to the upper salt mass of the Upper Devonian of the Pripyat' deflection.
- 2) In the late Devonian era the Dnepr-Donets depression and the Pripyat' deflection formed a uniform geological structure. They possessed a uniform stage formation and sedimentation which took place as well

CARD 2/3

The first of the f

20-4-42/60

New Data Concerning the Devonian of the Dnepr-Donets Depression.

under conditions of a continental lagoon as under conditions of a shallow sea. Temporarily a direct connection with the Western European Devonian sea existed.

The present data indicate that at the late Devenian time salt structures occured in the relief of the Dnepr-Donets depression which were analogous to that of Kalaydintsy. Toward the beginning of sedimentation of analogues of the lower parts of the Cyg zone of the Donets basin they were completely cut off.

There are 10 Slavic references.

ASSOCIATION: Institute for Geological Sciences AN Ukrainian SSR.

(Institut geologicheskikh nauk Akademii nauk Ukr.

SSR)

PRESENTED: By N.M. Strakhov, Academician, March 11, 1957

SUBMITTED: November 5, 1956
AVAILABLE: Library of Congress.

CARD 3/3